

MendALIEN Genetics

Name_____

Part A: Traits

1. Obtain two coins from your teacher. Mark one coin with an F and the other with an M to represent each of the parents. The parents are heterozygous for all the alien traits.
2. Flip the coins for the parent of each trait. If the coin lands heads up, it represents a dominant allele. A coin that lands tails up indicates a recessive allele. Record the result for each person by circling the correct letter. Use the results and the traits page to determine the genotype and phenotype for each trait.

Trait	Female		Male		Genotype	Phenotype
Face Shape	C	c	C	c		
Eye Shape	E	e	E	e		
Nose Style	N	n	N	n		
Face/Body Color	B	b	B	b		
Eye Color	R	r	R	r		
Body Type	S	s	S	s		
# of fingers	T	t	T	t		
# of toes	Y	y	Y	y		
Height	H	h	H	h		
Antennas	A	a	A	a		
Mouth Style	M	m	M	m		

Part B: Congratulations, It's A _____!!!

	Female		Male		Genotype	Phenotype
Sex	X		X	Y		

Part C: Create your ALIEN!

Use the Alien chart and your results from Part A to create a sketch of your alien in the box.
Once you have completed the sketch,
use some materials
(colored paper, scissors, pencils, markers, etc)
to create your alien.

